You want to predict the amount of weight lost from participating in an aerobics class.

 Weeks Attending Class Weight Lost (pounds)

 10 6

 5 4

 8 7

 6 6

 9 8

 a. calculate the line that describes this relationship. (Y = .49x + 2.49)

 b. describe what the slope of this line means about your variables.

 c. what does the intercept mean about your variables?

 d. how much weight would you predict someone who participated in 7 weeks of classes will lose?

e. The standard error of the estimate for this line is 1.25. Explain what this means about your predictions using

 this line.

Compulsive behaviors are related to level of anxiety. You want to predict how many compulsive actions someone will have based on their score on an anxiety inventory.

 Anxiety Score # of Compulsions

 20 8

 17 6

 12 5

 15 7

 18 7

 13 3

 15 6

a. calculate the line that describes this relationship. (Y = .46x -1.29)

 b. describe what the slope of this line means about your variables.

 c. what does the intercept mean about your variables?

 d. how many compulsions would you predict someone with an anxiety score of 14?

e. The standard error of the estimate for this line is 1.08. Explain what this means about your predictions using

 this line.